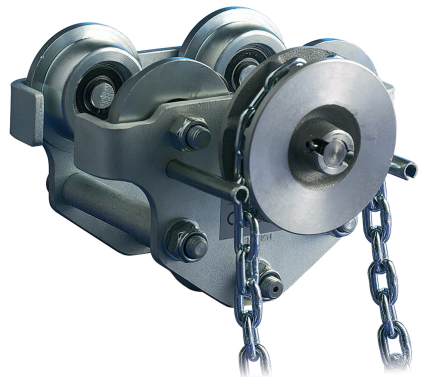
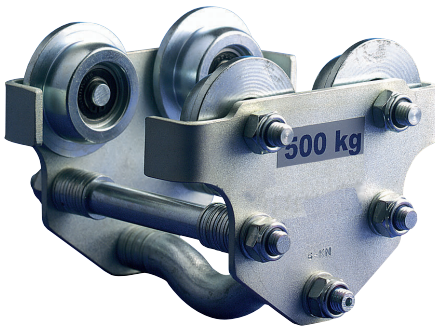


Operation and Maintenance Manual

Trolley HD3N-EX

Installation - Operation - Maintenance



- Models:
- Ex II 3 G IIB c T3 (Zone 2) / BASIC
 - Ex II 2 G IIB c T3 (Zone 1) / MEDIUM
 - Ex II 2 G IIC c T3 (Zone 1) / HIGH



IMPORTANT – READ BEFORE USE!

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1. General Instructions

Dear customer,

You have chosen a high-quality lifting device which is equipped as a special edition for deployment in potentially explosive areas.

The work area must be classified according to ATEX 137 (Richtlinie 1999/92/EG), and the chain hoist or the trolley must be suitable for operation in the classified area.



It is imperative that EX additional operating instructions, but also that the standard operating instructions are thoroughly and completely read before operating!

This instruction manual provides information about construction, commissioning, control, operation and maintenance.

Before delivery, each hoist is tested with a 25-50% overload and subjected to a final inspection after assembly. The overload protection is set at about 25%, so that dynamic overload tests can be performed.

The operating safety laws of Germany are generally applicable as well as the accident prevention regulations, e.g.: DGUV Vorschrift 54, DGUV Vorschrift 52 und DGUV Regel 100-500.

When used in other countries, the respective national regulations must be observed.

This hoist is specially designed for use in potentially explosive areas and thus complies with applicable regulations, standards and guidelines and is classified according to the version in the corresponding Ex classes. Among the regulations, the following are to be named, among others: ·

- ATEX Richtlinie 2014/34/EU
- BGR 104 Explosion protection rules (EX-RL)
- BGR 132 Prevention of spark hazards as a consequence of electrostatic discharge
- EN 13463-1 Non-electrical equipment for deployment in potentially explosive areas



The tests required before initial use, before restarting, and the recurrent testing must be carried out.

Failure to comply with the demonstrated performance and operational characteristics leads to the loss of any applicable warranty claims.



This operating manual serves as a complement to the standard operating and maintenance instructions for operation of the hoists in potentially explosive atmospheres!

We wish you much fun and success with your new hoist.

2. Symbols and Instructions



Symbol shows special hazards which could occur through incorrect handling of the device or not observing the operating instructions in potentially explosive atmospheres.



The symbol indicates that hazards for life and health of people as well as for equipment and material are present



Symbol for additional information, instructions and uses.

3. Product Description

The purchased hoist is designed for vertical lifting and lowering loads and not for procedures on track supports in potentially explosive environments.



Should the hoist or carriage be used outdoors, it is to be protected against rain, dust, etc. Please ensure that the ambient temperature is not below -20°C , or not more than $+70^{\circ}\text{C}$. The heat resistance of the chains and hooks is $+150^{\circ}\text{C}$.



Tearing away fixed loads, dragging loads and diagonal pull are prohibited!

The permissible load as stated on the hoist shall not be exceeded!

Passenger transport is prohibited with the equipment!

Persons are not allowed to walk or stand underneath airborne loads!



Use in potentially explosive atmospheres is permitted only in the equipment class as indicated on the nameplate or a lower equipment class.

4. EX version



PLANETA hoists in the Ex version are designed for maximum deployment conditions in the respective stated Ex class and may only be used in these or lowerclass Ex classes.

The respective Ex classification is shown on a separate label on the hoist.



The temperature class stated on the nameplate must be observed, whereby it must be ensured that the maximum surface temperature is not exceeded.

PLANETA hoists are equipped for the following usage conditions in Ex areas depending on the version:

- > Deployment in zones 1, 2, 21 and 22
- > Temperature classes to T4 or 135°C
- > For gases in explosion groups IIA, IIB, IIC and dusts

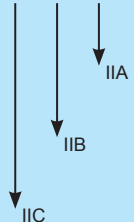
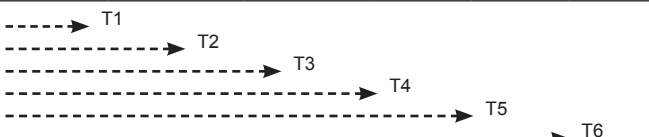
The following tables give a short overview:

Zone distribution:

Flammable materials	Classification of potentially explosive areas	Equipment group	Eqpt Category	Probability of Exatmosphere
Gases & vapours	Zone 0	II	1G	constant, longterm or frequent
	Zone 1	II	2G or 1G	occasionally
	Zone 2	II	3G or 2G or 1G	probably not
Dust	Zone 20	II	1D	constant
	Zone 21	II	2D or 1D	occasionally
	Zone 22	II	3D or 2D	probably not

Temperature classes:

The max. surface temperature of the operating material must always be less than the ignition temperature of the gas-vapour-air mixture. Operating materials which are classed in higher temperature classes are approved in all areas where lower temperature classes are required.

Deployability of the operating materials	List of gases and vapours										
	Explosion subgroup II for ignition prot. type d, i, n	Gases & vapours									
	IIA	Ammonia Methane Ethane propane	Ethyl alcohol Cyclohexane n-butane	Benzene gen. jet fuels n-hexane	Acetal- dehyde						
	IIB	Acrylnitrile City gas	Ethylene Ethylene oxide	Ethylene glycol Hydr. sulphide	Etyhl ether						
	IIC	Hydr.	Acetylene Ethin				Carbon disulfite				
Temperature class: Classification of gases, vapours and mists acc. to ignition temperature											
T1 max. 450		T2 max. 300		T3 max. 200		T4 max. 135		T5 max. 100		T6 max.85	
Deployability of Operating Material											
											



In potentially explosive areas with combustible dusts, the surfaces should not exceed a temperature which is 2/3 of the ignition temperature in °C of the dust/air mix. The indication of a temperature class related to the hoist assumes an ambient temperature between -20°C and +70°C.

The heat resistance of the chains and hooks is +150°C. For stationary outdoor operation, the stand ar d chain hoists must be protected from the weather and maintenance intervals must be reduced.

5. Nameplate



The Ex classification with information about the equipment classification can be found on the nameplate on the hoist.

Hoists for deployment in Ex areas must exclusively be deployed in those areas for which they are classified.

Use of the hoists in lower-classified areas is allowed.

Example for explanation of the designation of an Ex classification :

Ex	II	2	G	IIB	T3
·	·	·	·	·	·
·	·	·	·	·	Temperature class
·	·	·	·	·	Hazard class only for gases
·	·	·	·	·	Potentially explosive mixture : Dusts or gases
·	·	·	·	·	Eqpt Category
·	·	·	·	·	Equipment group

Explosion-protected operating materials



If the nameplate is missing, the hoist may not be operated in potentially explosive atmospheres!

6. Instructions for use

The following maximum, uninterrupted deployment times for the hoists must be observed: Chain blocks are manual lifting devices which are not appropriate for permanent operation in lowering operations. To avoid impermissibly high temperatures of the friction plates, the max. uninterrupted usage times for applications in Ex areas must not be exceeded : assuming a maximum ambient temperature of up to + 40° celsius)



When lowering a max. deployment of approx. 3 m of uninterrupted lowering path may not be exceeded, as the brakes heat up immensely during lowering.



After this 3 m working path (lowering) a pause of approx. 20 minutes is required for cooling down the hoist brake.



Even in the case of only slight wear of the surface-treated parts such as e.g. chains, hooks, etc., these must be replaced with original spare parts. Defective parts cannot be guaranteed to maintain Ex protection.



Ignitable dust deposits should be avoided on the hoists. Every day before starting work free the hoist of dust deposits and make sure that no dust can accumulate between the moving parts.



Repair work should only be carried out outside the potentially explosive area.



Protect the hoist from impacts, friction, rough handling and moisture.



During operation of the hoist it is important to ensure that the operator wears conductive clothing (shoes, gloves). Gloves should have a conductive resistance of <math><10</math> to the power of 8 ohms. Pulling off clothes may cause explosive discharges and is therefore not allowed.



Electrostatically induced hazards of ignition can be prevented by grounding. In Zone 1, grounding of the hoist is required! This must be done on the load hook, or the load eye, when the hoist is connected to the appropriately grounded parts. For trolleys, the surfaces of the wheels and rail may never be painted, because these can lead to impermissibly high grounding resistance values.



Loads must be grounded during transport; separate grounding is necessary, for example when using non-conducting load-securing devices. In order to prevent in zone 1 but also in zone 2 that gases in group IIC, hydrogen sulfide and ethylene oxide do not generate mechanical sparks, then chain and load must always be moved in such a way that the sliding and/or frictional contact with other equipment or parts does not take place.



In order to ensure the proper level of grounding, rusty chains may no longer be used in zones 1 and 2. Depending upon the degree of corrosion, the grounding performance loss in the chain can be impaired to an unacceptable extent.



7. Maintenance and Repair



All test results, maintenance and repair work which is undertaken on the hoist must be documented in writing!

Maintenance and repair work must be carefully carried out, as this serves to maintain the hoist and guarantee its safety.

All maintenance and repair work must be carried out by expert, trained personnel.



As far as possible, repair work must be carried out on unloaded hoists and not in potentially explosive atmospheres.

7.1 Inspection Intervals




The table below gives an overview of test procedures required under normal operating conditions and single-shift operation. Under more difficult circumstances or in a multi shift operation, inspection intervals should be shortened accordingly.


	when putting into operation	daily inspection	Inspection, maintenance every 3 months	Inspection every 12 months
Screw connections, housing and hooks	x		x	
Housing wear of surface coating	x	x		
Load chain Wear of surface coating	x	x		
Load hook Wear of surface coating	x	x		
Hand chain Wear of surface coating	x	x		
Inspect hook for cracks and deformation	x			x
Check load chain for elongation and wear	x	x		
Brake function	x	x		
Brake pads, ratchet, pawls			x	
Existence of cellulose buffer on trolley	x	x		
Wear on the wheels			x	



Independently of the inspection intervals given here, the test regulations of the respectively valid accident prevention laws must be observed!


8. Technical Information for the Versions

 Fundamentals for the following information are our internally gathered experience, based on EG-Richtlinie 2014/34/EU ATEX guidelines. For chain hoists in areas 1 and 21, the technical construction documents are registered at the stated office (no.0123).


 In the “HIGH” version, load chains are used with NIROSTA special load chain fabrication steel, which causes a reduction in the load-bearing capacity of the series chain hoists.

The table below gives you the varying load-bearing capacities in the “HIGH” version compared to the “BASIC” and “MEDIUM” versions. The hoists themselves are in the “HIGH” version, but already indicated with lower load-bearing capacity on their nameplates.


Load-bearing capacity in version BASIC/MEDIUM in kg	Type	Chain diameter in mm	Number Load lines	Reduced load-bearing cap. of HIGH version in kg
250	0.25 Ex	4 x 12	1	250
500	0.5 Ex	5 x 15	1	500
1000	1.0 Ex	6.3 x 19	1	1000
1500	1.5 Ex	7.1 x 21	1	1250
2000	2.0 Ex	8 x 24	1	1250
3000	3.0 Ex	10 x 28	1	2000
5000	5.0 Ex	9 x 27	2	3200
10000	10.0 Ex	9 x 27	3	6400

 **BASIC version is appropriate for use in Ex II 3 G IIB T3 (Zone 2):**

- fast-moving parts and contact parts treated with special coatings
- Load and hand chains galvanised
- Trolley with cellulose buffer

 **MEDIUM version is appropriate for use in Ex II 2 G IIB T3 (Zone 1):**

- fast-moving parts and contact parts treated with special coatings
- Carrying and load hooks treated with special coating
- Load and hand chains galvanised
- Trolley with cellulose buffer

 **HIGH version is appropriate for use in Ex II 2 G IIC T3 (Zone 1):**

- fast-moving parts and contact parts treated with special coatings
- Carrying and load hooks treated with special coating
- Load and hand chains in NIROSTA
- Trolley with cellulose buffer
- Wheels made of bronze

EC - Installation Declaration acc. to Machine directive 2006/42/EC
 Declaration for the installation of an incomplete machine according to
 EC directives 2006/42/EC, Addendum II B

We,

PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne

hereby declare that the incomplete machine

Trolley	Type HD3N
Capacity	500 kg – 50.000 kg

which was developed for lifting and lowering of loads, in the standard version, including load capacity control, is intended for installation in a machine and meets the basic requirements for the following EC directives, as applicable for the delivered scope:


EG-Maschinenrichtlinie 2006/42/EG

In addition, we declare that the technical documentation has been created according to addendum VII Part B of the directive 2006/42/EC. We commit to supply the special documentation of the hoist gear to the individual national agencies upon justified request. The transmission will be made electronically.

This declaration applies only to the hoist gear. Commissioning is prohibited until it has been established that the crane, in which the hoist gear is installed, meets the regulations of the above stated EC directives.

Authorized for the compilation of the relevant technical documentation:

Dipl.-Ing. Matthias B. Klawitter, CE-Koordinator,
 PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne

Sales order ref.:	21XXXXX
Fabrication no.:	21XXXXX-01
Date:	XX.XX.201X
Description of goods:	Type HD3N-EX
Capacity	XXX kg - XX.000kg
ATEX identification	CE 0344  II 2GD c IIC T3 200°C (High)

complies with the:

- EC Machine directive 2006/42/EG
- EG Directive for explosion-dangerous areas 2014/34/EU - ATEX
- EN 13463-1 non electric materials for use in explosion-dangerous areas, basic methods and requirements
- EN 13463-5 non electric materials for use in explosion-dangerous areas
- EN 1127-1 Explosionproof prevention part 1
- EN 13157 Security of manually operated hoist
- DIN EN ISO 9001:2008

The technical documentation is filed in manufacturers company

Herne, 10.11.2016

PLANETA-Hebetechnik GmbH


 Dipl.-Ök. Christian P. Klawitter
 (General Manager)

For the completion, installation and commissioning according to the operating instructions is responsible:

Location: Date:

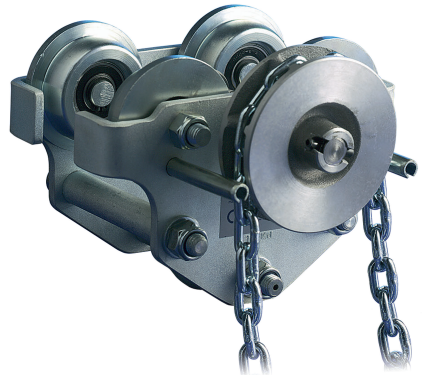
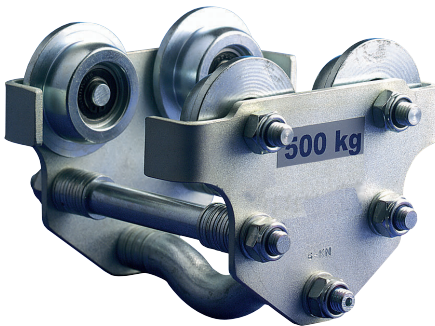
Person responsible:

Company:

Operation and Maintenance Manual

Trolley HD3N

Installation - Operation - Maintenance



IMPORTANT – READ PRIOR USE!

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1. Introduction

Some important points to start with: This manual provides instructions for safety and reliability of your hoist and trolley. It is not a substitute for the accident prevention regulations (UVV) of the German Berufsgenossenschaft or all the other numerous standards which are different in other countries. You have to know all these regulations when operating this hoist or trolley! We suppose that all these local rules will be substituted by European regulations since the E.C. has one common market. But the sense of any regulation is the same:

to prevent accidents!

Please, follow the rules for country specific regulations.

In the German area, the currently valid operational safety regulations as well as The regulations of the Berufsgenossenschaft DGUV.

PLANETA hoists and trolleys are intended to be safe and reliable assistants. For this reason, we have written this operation manual. But it's only serving its purpose in the hands of the user. It is worthless in a hidden file. If you need further copies, we shall be pleased to forward them. Mind these instructions also in regard of your purse: wrong maintenance, improper use or accidents owing to miswatching of regulations exclude our guarantee and liability.

To maintain working safety, repairs may only be carried out by trained mechanics and only original Planeta-spare parts should be used. It is important that only Planeta-trained mechanics perform such repairs; they know which and when spare parts have to be changed. The installation of foreign spares is a safety risk and results in loss of guarantee.

55- our agencies and service points are at your disposal at any time. Ask first your distributor where you bought the hoist. His name should be on a sticker at the hoist, or have a look in the invoice. If you cannot locate his name, we are pleased to help you by mentioning of fabrication number.

Our emergency call number in Germany:

+49-2325-9580-0

To order original-Planeta-spare parts please refer to the spare parts list belonging to this manual. It is important to note that after any maintenance or repair work, all functions must be checked before putting the hoist back into service. If you follow these instructions, you will always be satisfied with your PLANETA-equipment.

2. Name plate

There are, of course, some spare parts with wear which have to be replaced after a longer operation period. We recommend to fill in at once the following table to assure that you get the correct parts in future. Mostly the lifting hoist or trolley has passed later a tough job and you cannot read the numbers or letters. Take the important data from the name plate or from your test certificate. Please use only our spare parts list to order parts and mention the correct spare part number.

Model	Serial-No.
Capacityt	Year
Liftm	Chainmm

Since the quality of the product is being continually improved and alterations or inventions should be latest state of art, changes of design are reserved by us without prior information. If this manual differs in unimportant points from the real version of your hoist, we kindly beg your pardon. The next print will include this modification. But if you mention us the serial number, year of manufacturing or other typical design details, we should be able to find out the proper part which you require. For further information in English language please order our English manual.

3. Safety remarks

Some works and some way of operations are not allowed with the chain hoist and trolley of any type because they may destroy the hoist or trolley or they can do invisible damage and a later sudden accident. They also will bring danger for life and health of the operator. So remind:

- Transportation of persons is strictly forbidden.
- Do not drive loads hanging in trolley hooks above persons.
- Do not pull attached loads under angle or aside. Only vertical lifting and lowering and horizontal movements are allowed.
- Do not try to force sticking loads.
- Do not attach overload willingly.
- Never leave a suspended load unattended.
- Never run chains over sharp edges and around corners. Use a sheave!
- Do not use lifting chain as a sling.
- Chain hoist with push or geared trolley has to be moved by hauling the hand chain or by pushing against the load or the bottle hook. Never pull or tear simply the hand chain.
- Don not drop a load into the slack chain or hook.

General safety instructions

We have pointed out already in the introduction how important it is to mind all points of this instruction. You should especially be aware of the regulations and laws in connection with the product liability and insurance requests.

- The Operation and maintenance manual has always to be within reach to the place of action. It contains important and essential aspects and extracts from the relevant standards and precautions. Any non-observance of the guide lines and hints out of this manual may lead to injuries or even to death of a user of hoist or other innocent persons.
- In addition to this operation and maintenance manual there are National standards, laws and common safety senses to mind and to follow. Have also pollution and accident prevention regulations in mind! It could also be your obligation to wear special protection suits or to use special tools and safety devices for handling of dangerous loads.
- Any working with this hoist and trolley assumes and implies the observance of the local accident prevention regulations and the consequently action according these regulations.
- Even then, following up all of this, there could be more danger from untrained or not special advised workers using this hoist/trolley not in the sense of its originated purpose. Please make sure that only people with education and clear senses will use it.
- Please add to this chapter the instructions given by your company, i.e. regarding daily inspections, test procedures, working processes, records, and all instructions you think that they are helpfull to prevent accidents.
- All staff who will work with this lifting equipment must read this booklet prior the use of the hoist, especially the chapter about the safety instructions. During the operation its too late! This is valid especially for the use of hoists only through inspection periods or when doing seldom maintenance work with the hoist.
- Responsible personal shall check frequently whether the staff working with the hoist is doing it according to all safety instructions.
- The owner of the hoist or of the company and his management are responsible for the good condition and for completeness of all necessary safety devices at the hoist and that it is used only in a safe manner. The Test booklet must be properly held and it has to contain the anual inspection check. We recommend to sign a maintenance contract with Planeta-Hebetechnik GmbH who can inspect, maintain and repair your equipment periodically.
- Please set any chain hoist or trolley out of order if a failure appears in fuction. Call for designated help!

- The personal who works with the hoist, shall not bear long open hair, loose suits or jewels including rings. That could effect danger of injuries or that something can be pulled into the hoist.
- Safety tags, stickers and other attached instructions at the hoists like name plates are not allowed to be replaced, removed or overpainted. All written, printed or stamped letters and safety instructions have to be held in good readable condition. Use grease or other protection if necessary!
- **Important:** If this hoist or this trolley was made for manual powered operation, you are not allowed to power it by a motorized device without prior allowance of the manufacturer. For example: the use of an electric hand drilling machine is not allowed to be used at a reel chain wheel.
- **Here add company safety advises:**

4. Operation

Test before use

- Please check whether the supplied hoist is in accordance with your purchase order, check completeness and tightness of all bolts and nuts.
- Make sure that there occurred no damages during transportation.
- Copy and write down the date from name plate into your operation manual after inspection of the hoist and trolley.
- Take fully care that the maintenance and operation manual is in reach of the personal who works with the hoist or make sure that the supervisor has it at hand to instruct the personal.
- Check or recalculate whether the supporting construction (beam, clamp etc) in which the trolley or hoist hangs is in full compliance with the necessary capacity.
- If you are in doubt, please call for help of a construction engineer for statics.
- Chain hoists hanging in a trolley or even incorporated in a trolley, are cranes. They have to comply with special standards and safety regulations (BGV D6 in Germany). They have to be checked by a “crane expert” prior use. We can help you with such an expert upon your request. Please do not hesitate to contact us under the phone number on page 1.

Installation hint

- Do not use the hoist and trolley without corrosion protection (grease) under free sky or leave it there.
- If it is necessary that the unit has to be used outside, we recommend to construct a little “hut” or only a roof like a “car port” to protect the unit against rain and other environed aggressive influences. A new PLANETA-hoist is not restricted in use outside or under the described conditions, but during the operations while chains move and wheels drive, there will be wear on metal parts where corrosion can take effect. This is not a warranty claim! Mainly high temperatures, high air moisture, acid atmospheres, poison steams or high dust pollution are the major reasons why a hoist can get wear and can get a shortened life time. Mechanical moving parts are mostly affected. Watch these parts generally and keep them greased and maintained whenever it seems to be necessary.
- When your unit will be used daily and it is important that it functions absolutely for sure, please buy a spare unit to have it at hand in case of trouble. This avoids down time in your production.
- Do not allow the unit and chain to be exposed to extremely cold whether. Do not apply loads to a cold chain. Temperatures lower -20°C or higher than $+60^{\circ}\text{C}$ may decrease the safe working load. Call manufacturer if in doubt!

5. Installation

Prior delivery, all units have been lubricated, tested with full load and overload and they received a test certificate.

The distance and carrying bolts of the trolley are equipped outside with distance sleeves/discs which could be released after displacing of the nuts. Then move the side plates as far as necessary to the outside that the trolley can be lifted from beneath over the beam flange. Now push the trolley side plates in direction to the beam flange until the wheels fit correctly the beam flange. Tighten the distance sleeves and the nuts again. See table for torque. If the beam is open at one end, it is easier to roll the trolley from there directly on the beam. Once the trolley is installed, move it for first test. Hand chains should hang down proper and freely and should not have any kinks or twists. After this worked fully satisfying and safe, you can start with the normal operation of the trolley.

Nut	Torgue (Nm)
M10	26
M12	45
M16	110
M20	210
M24	365
M30	725
M36	1265

Special remarks for trolleys if they were ordered for adjustable beam sizes:

- Each trolley and all its functions are tested in fully assembled version before it leaves the company. The length of the hand chain is installed according the requested lifting height (1 m less from lift) or according your special request in purchase order. Your mentioned beam size will be recognized and adjusted according your order. In most cases, the trolley is not adjustable. You may have it ordered with adjustability, then we trust that the trolley will be for various beam sizes in the range of possible static calculations. We will supply the trolley unadjusted or unassembled.
- Please mind following remarks before you put the trolley into service:
The true dimension of the beam flange has to be measured and the width of the trolley wheels has to be adjusted according this:
Runway-Beam flange width + ca. 2 mm = trolley wheel gauge in mm
There are distance discs and distance pipes on the carrying bolts of the trolley. The required gauge of trolley can be reached by taking away or adding of these distance elements. This mooves the side plates closer or wider to the beam flange. It is important that the nuts will be tightened properly. This job has to be done symetrically so that the bottle load hook will be afterwards directly centered under the beam flange. The distance discs which are not needed, shall be used outside!
- When the wheels have its correct position and the gauge is checked, put the big disc and then the small distance discs outside on the bolt and fix them with the nut.
- After this last check, the trolley can be rolled on the beam flange at the beam end. If this is not possible because the beam is closed or too narrow, the trolley has to be disassembled as discribed under item 5. Again: Please tighten the locking nuts properly and check that they will not loosen by itself when the trolley drives on the beam.

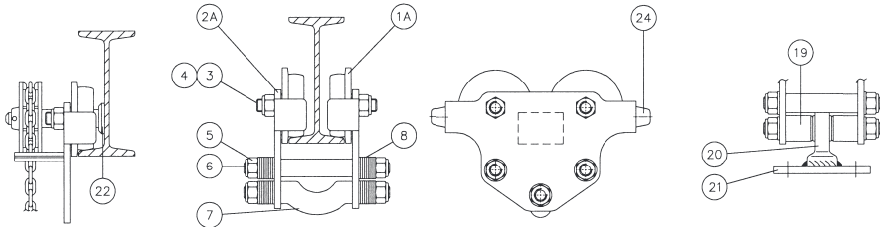
- A geared trolley is powered by a reel chain which is pulled downwards either at the right or at the left side. A push trolley does not have that. Take the advice of PLANETA if you use the trolley hoist under heavy circumstances or environments, because there could be special features necessary. Those circumstances could be:
 - Dusty, greasy, acid containing areas
 - Ocean climate or wet, salty areas
 - Explosion danger areas
 - Food industry
 - Extremely high or low temperatures.
- Move the trolley only by hand power.
- No fast moving or machinery powered drives are allowed for pushing or towing of the geared trolley. Wheels and gears are made only for its originated purpose.
- Watch always the load when you drive the trolley.
- It sometimes happens that a load is too long or too wide to be lifted with one trolley hoist only. So if you have to move this part and you have to use two trolleys at each end, please choose the capacity of each trolley as big as the total weight of the load. This prevents an accident when the load swings and one hoist could get overloaded if too small.

6. Inspections, Repair and Maintenance

When you detect during the disassembling of your trolley that some parts are worn or damaged, please replace them by original new parts. The name of the spare parts are found in the spare parts list and the spare parts drawings which are attached some pages later. Please mention the correct spare part number, the description and the capacity of the trolley. If the parts are bolts please mention also flange width of your beam for which the trolley was built. If you are in doubt, send defect part to us.

Bearings of trolley wheels are lifetime lubricated. You may grease the pinion and the gear of wheel from time to time with gear grease.

7. Spare parts list



Position	Number	Designation	Item number
1A	2/4	Flange wheel (push)	HD3N-1A
1B	0/2	Flange wheel (geared)	HD3N-1B
2A	0/1	Side plate A (zu 1A)	HD3N-2A
2B	0/1	Side plate B (zu 1B)	HD3N-2B
3	4	Wheel axle	HD3N-3
4	4	Circlip	HD3N-4
5	10	Nut/spring washer	HD3N-5
6	2	Distance bolt	HD3N-6
7	1	Suspension bolt	HD3N-7
8		Adjust washer	HD3N-8
9	1	Hand chain wheel	HD3N-9
10	1	Spring pin	HD3N-10
11	1	Drive axle	HD3N-11
12	1	Bearing house	HD3N-12
13A	1	Pinion	HD3N-13A
14	2	Chain guide	HD3N-14
15	1	Hand chain	HD3N-15
20	1	Suspension bolt for swing beam trolley	HD3N-20

8. Annual UVV-testing

Type of Test	Date	Tester	Result

EG-DECLARATION OF INCORPORATION
Declaration of incorporation of partly completed machinery according to
EU directives 2006/42/EC, Appendix II B

We hereby declare,

PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne

that the partly completed machinery

Trolley	Modellreihe HD3N
Capacity	500 kg – 50.000 kg

are in the standard version, including load control, intended for installation in a machine and the basic requirements of the EC Directives listed below, as applicable for the supplied scope correspond to:

EG-Machinery Directive 2006/42/EG

We also declare that the technical documentation referred to in Annex VII, Part B of Directive 2006/42/EC were created. We commit ourselves to the special documents to the above mentioned Products to submit a reasoned request to national bodies. The transmission is electronic.

This statement applies only to the above-mentioned Products. Commissioning is prohibited until it has been determined that the above-mentioned Products have been installed properly and the provisions of the above EC Directives.

Authorized to compile the relevant technical documentation:

**Dipl.-Ing. Matthias B. Klawitter, CE-Koordinator,
PLANETA-Hebetechnik GmbH, Resser Straße 17, D-44653 Herne**

Herne, 10.11.2016

PLANETA-Hebetechnik GmbH



Dipl.-Ök. Christian P. Klawitter
(General Manager)

Is responsible for the completion, installation and commissioning according to the manual responsible:

Location: Date:

Responsible for:

Company:

Notizen

A series of 25 horizontal dotted lines for writing notes.

Your responsible supplier: